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Terms: **patno=6032128** ([Edit Search](#))

08990241 6032128 February 29, 2000

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
6032128

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February 29, 2000

Method and apparatus for detecting item placement and item removal during operation of a self-service checkout terminal

REISSUE: February 27, 2002 - Reissue Application filed Ex. Gp.: 2764; Re. S.N. 10/084,588 May 21, 2002

INVENTOR: Morrison, James, Suwanee, GA; Lutz, Dusty L., Lawrenceville, GA

APPL-NO: 08990241

FILED-DATE: December 15, 1997

GRANTED-DATE: February 29, 2000

ASSIGNEE-AT-ISSUE: NCR Corporation, Dayton, OH

ASSIGNEE-AFTER-ISSUE: December 15, 1997 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., NCR CORPORATION LAW DEPARTMENT 1700 S. PATTERSON BLVD. DAYTON, OHIO 45479-000,, Reel and Frame Number: 008908/0848

LEGAL-REP: Maginot, Addison & Moore

IPC-MAIN-CL: G 06F017#0

IPC ADDL CL: A 47F009#4

SEARCH-FLD: 705##23 , 235##462 , 186##61

PRIM-EXMR: Trammell, James P.

ASST-EXMR: Nguyen, Nga B.


REF-CITED:

3836755, 1974, United States (US)
4676343, 1987, United States (US)
4779706, 1988, United States (US)
4788467, 1988, United States (US)
4792018, 1988, United States (US)
4940116, 1990, United States (US)
4964053, 1990, United States (US)
5083638, 1992, United States (US)
5125465, 1992, United States (US)
5378860, 1995, United States (US)
5635906, 1997, United States (US)
5747784, 1998, United States (US)

CORE TERMS: processing, user, post-scan, checkout, subroutine, shelf, terminal, log, routine, grocery ...

ENGLISH-ABST:

A method of providing security during operation of a checkout terminal, with the terminal having a first scale, includes the step of storing a first identification code associated with an input item in a memory in response to entry of the input item into the terminal. The method also includes the step of detecting the weight of the input item with the first scale and storing an input weight value associated with the weight of the input item in the memory in response thereto. The method further includes the step of retrieving a second identification code associated with a removal item from the memory in response to a user voiding entry of the removal item. Moreover, the method includes the step of detecting the weight of the removal item with the first scale and generating a removal weight value associated with the weight of the removal item in response thereto. The method yet further includes the step of generating a wrong-item-removed control signal if (1) the first identification code is the same as the second identification code, and (2) the input weight value does not match the removal weight value.

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Segments: Abst, Appl-no, Assignee, Asst-exmr, Date, Exmr, Int-cl, Inventor, Legal-rep, Patno, Pct-pub-date, Prim-exmr, Ref-cited, Reissue, Search-fld, Title

Date/Time: Friday, July 19, 2002 - 2:13 PM EDT

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1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - **US6032128** A 20000229 [**US6032128**]

TI - (A) Method and apparatus for detecting item placement and item removal during operation of a self-service checkout terminal

PA - (A) NCR CORP (US)

IN - (A) MORRISON JAMES (US); LUTZ DUSTY L (US)

AP - US99024197 19971215 [1997US-0990241]

PR - US99024197 19971215 [1997US-0990241]

IC - (A) A47F-009/04 G06F-017/00

EC - A47F-009/04D1A
G07G-001/00C2D

PCL - ORIGINAL (O) : 705023000; CROSS-REFERENCE (X) : 186061000 235383000
235462010 235462310 235462430 702023000 705025000 705026000

DT - Basic

CT - US3836755; US4676343; US4779706; US4788467; US4792018; US4940116; US4964053;
US5083638; US5125465; US5378860; US5635906; US5747784

STG - (A) United States patent

AB - A method of providing security during operation of a checkout terminal, with the terminal having a first scale, includes the step of storing a first identification code associated with an input item in a memory in response to entry of the input item into the terminal. The method also includes the step of detecting the weight of the input item with the first scale and storing an input weight value associated with the weight of the input item in the memory in response thereto. The method further includes the step of retrieving a second identification code associated with a removal item from the memory in response to a user voiding entry of the removal item. Moreover, the method includes the step of detecting the weight of the removal item with the first scale and generating a removal weight value associated with the weight of the removal item in response thereto. The method yet further includes the step of generating a wrong-item-removed control signal if (1) the first identification code is the same as the second identification code, and (2) the input weight value does not match the removal weight value.

UP - 2000-10

1 / 1 LGST - ©LEGSTAT

PN - US 6032128 [US6032128]
AP - US 990241/97 19971215 [1997US-0990241]
DT - US-P
ACT - 19971215 US/AE-A
APPLICATION DATA (PATENT)
US 990241/97 19971215 [1997US-0990241]

20000229 US/A
PATENT

20020521 US/RP
REISSUE APPLICATION FILED
20020227
UP - 2002-22

1 / 1 CRXX - ©CLAIMS/RRX

PN - 6,032,128 A 20000229 [US6032128]
PA - AT&T Global Information Solutions Co
ACT - 20020227 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020521
REISSUE REQUEST NUMBER: 10/084588
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2764

Reissue Patent Number:

1 / 1 PAST - ©Thomson Derwent

AN - 200221-002021
PN - 6032128 A [US6032128]
OG - 2002-05-21
ACT - REISSUE APPLICATION FILED

Query/Command : file inpadoc

PLUSPAT - Time in minutes : 0,88
The cost estimation below is based on Questel's
standard price list

Estimated cost :	1.93 USD
Records displayed and billed :	1
Estimated cost :	1.10 USD

1 / 1 INPADOC - ©INPADOC

PN - US 6032128 A 20000229 [US6032128]
TI - METHOD AND APPARATUS FOR DETECTING ITEM PLACEMENT AND ITEM
REMOVAL DURING OPERATION OF A SELF-SERVICE CHECKOUT TERMINAL
IN - MORRISON JAMES [US]; LUTZ DUSTY L [US]
PA - NCR CORP [US]
AP - US 990241/97-A 19971215 [1997US-0990241]
PR - US 990241/97-A 19971215 [1997US-0990241]
IC - G06F-017/00; A47F-009/04

1 / 1 LEGALI - ©LEGSTAT

PN - US 6032128 [US6032128]
AP - US 990241/97 19971215 [1997US-0990241]
DT - US-P
ACTE - 19971215 US/AE-A
APPLICATION DATA (PATENT)
US 990241/97 19971215 [1997US-0990241]

20000229 US/A
PATENT

20020521 US/RF
REISSUE APPLICATION FILED
20020227
UP - 2002-22

Query/Command : ..st

Session finished: 19 JUL 2002 Time 20:45:52

INPADOC - Time in minutes : 0,61
The cost estimation below is based on Questel's
standard price list

Number of ..FAM command :	1	Estimated cost :	0.67 USD
		Estimated cost :	10.00 USD
Cost estimated for the last database search :			10.67 USD
Estimated total session cost			43.27 USD

LEGALI - Time in minutes : 0,05
The cost estimation below is based on Questel's
standard price list

		Estimated cost :	0.05 USD
Cost estimated for the last database search :			0.05 USD
Estimated total session cost			43.32 USD

Cost estimated for the last database search : 3.03 USD
Estimated total session cost : 6.41 USD

LGST - Time in minutes : 0,06
The cost estimation below is based on Questel's
standard price list

	Estimated cost :	0.06 USD
Records displayed and billed :	1	
	Estimated cost :	0.57 USD
Legal-Status informations :	1	
	Estimated cost :	4.92 USD
Cost estimated for the last database search :	5.55 USD	
Estimated total session cost :	11.96 USD	

CRXX - Time in minutes : 0,05
The cost estimation below is based on Questel's
standard price list

	Estimated cost :	0.07 USD
Records displayed and billed :	1	
	Estimated cost :	5.00 USD
Legal-Status informations :	1	
	Estimated cost :	4.92 USD
Cost estimated for the last database search :	9.99 USD	
Estimated total session cost :	21.95 USD	

PAST - Time in minutes : 0,06
The cost estimation below is based on Questel's
standard price list

	Estimated cost :	0.11 USD
Records displayed and billed :	1	
	Estimated cost :	5.61 USD
Legal-Status informations :	1	
	Estimated cost :	4.92 USD
Cost estimated for the last database search :	10.64 USD	
Estimated total session cost :	32.59 USD	

LITA - Time in minutes : 0,01
The cost estimation below is based on Questel's
standard price list

	Estimated cost :	0.01 USD
Cost estimated for the last database search :	0.01 USD	
Estimated total session cost :	32.60 USD	

Selected file: INPADOC

Search statement 2

Query/Command : fam us6032128/pn

1 Patent Groups

** SS 2: Results 1

Search statement 3

Query/Command : famstate nonstop

/// INPADOC - ©INPADOC

PN - US 6032128 A 20000229 [US6032128]
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IC - G06F-017/00; A47F-009/04

/// LEGALI - ©LEGSTAT

PN - US 6032128 [US6032128]
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DT - US-P
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APPLICATION DATA (PATENT)
US 990241/97 19971215 [1997US-0990241]

20000229 US/A
PATENT

20020521 US/RF
REISSUE APPLICATION FILED
20020227
UP - 2002-22

Query/Command : ..st